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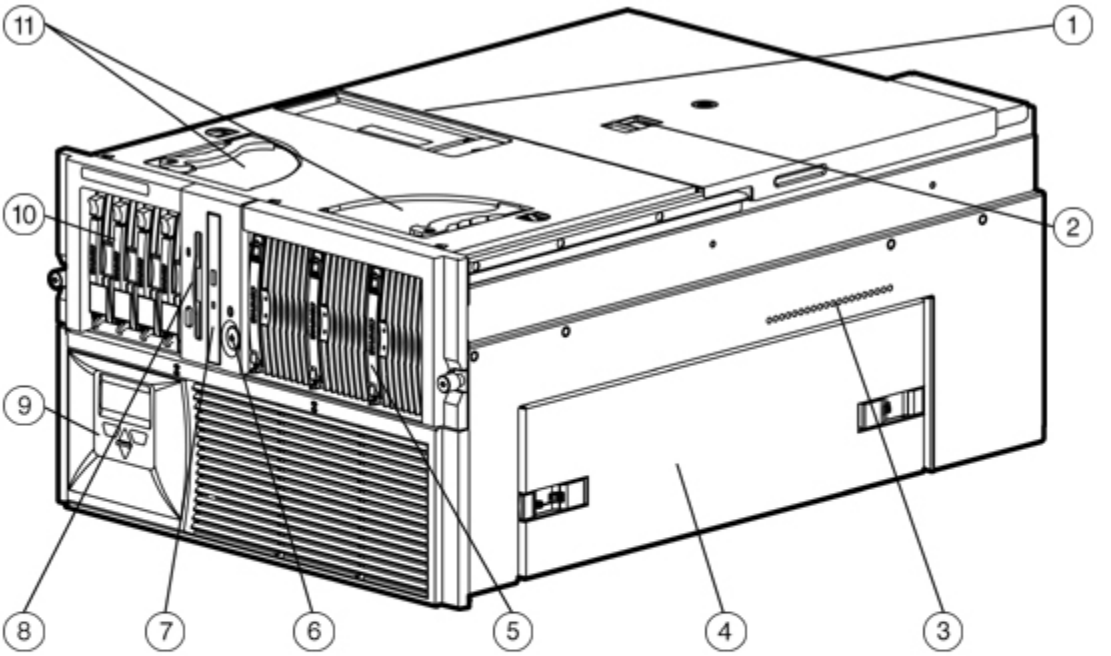
QuickSpecs

Compaq ProLiant DL590/64



1. Fan Access Cover
2. Top Access panel
3. System Interconnect / Status LEDs
4. Processor/Memory Drawer
5. Hot Plug Redundant Power Supplies
6. Power button/switch
7. 24x IDE CD-ROM Drive (Slim Line)
8. Integrated LS-120 Drive
9. Integrated Management Display (IMD)
10. Four 1" Wide Ultra2/Ultra3 SCSI Hot Plug Drive Bays
11. Media/Power Supply Module Release Levers

What's New

- The Compaq *ProLiant*™ DL590/64 introduces the first 64-bit industry-standard rackmount platform delivering high-density (7U) Enterprise computing
- Intel® Itanium™ 800 MHz-4MB and 733 MHz-2MB processors (four processor capability)
- 2-MB, 4-MB L3 Cache
- 133MHz double data rate front-side bus (266 MHz)
- 6 PCI Bus segments – Eleven 64-bit hot plug expansion slots (eight 64-bit/66-MHz, three 64-bit/33-MHz)
- Integrated Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100 in a slot, upgradeable to Gigabit and 4 Port 10/100
- Integrated Smart Array Controller (Ultra 2 support)
- Advanced ECC Memory Correction
- 4-GB (800 MHz Model) or
  1-GB (733 MHz Model) standard memory using PC100 SDRAM DIMMs, expandable to 64-GB maximum
- 4 x 1 Wide Ultra 2/Ultra 3 drive bays standard
- Internal Hot Plug Drive Storage of 291.2 GB (4 x 1 72.8-GB Wide Ultra3 SCSI hard drives)
- Modular design includes:
  - Easier to service and upgrade
  - Processor/Memory module
  - Removable media module
- 1250/700 watt (highline/lowline) N+1 Hot Plug Redundant Power Supply
- Hot Plug, N+1 Redundant System Power Modules
- Hot Plug Redundant Fans
- ROM-Based Setup Utility (RBSU)
- Remote-Flash Redundant ROM
- Integrated Management Display (IMD)
- ACU-XE (Array Controller Utility-XE)
- Protected by Compaq Services, including a three-year, Next Business Day on-site, limited, Global warranty and extended Pre-Failure Warranty that covers processors, memory and disk drives — Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.

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Standard Features

Processor *One of the following depending on Model:*	Intel Itanium processors 800 MHz (Two ship standard, up to four supported) Intel Itanium processors 733 MHz (Two ship standard, up to four supported)
Cache Memory *One of the following depending on Model:*	4-MB level 3 writeback cache per processor standard (Note: Available with 800 MHz processor.) 2-MB level 3 writeback cache per processor standard (Note: Available with 733 MHz processor.)
Upgradability	Upgradable to four processors
Chipset	Intel 460GX Chipset Note: For more information regarding the Intel Chipset, please see the following URL: http://www.intel.com/design/itanium/chipdoc.htm?iid=ipp_srvr_proc_itanium+body_460gx&.

Memory *One of the following depending on Model:*	Standard	4096-MB ECC protected 100-MHz ECC SDRAM DIMMs (800-MHz Model)	
	Maximum	64 GB	
	Standard	1024-MB ECC protected 100-MHz ECC SDRAM DIMMs (733-MHz Model)	
	Maximum	64 GB	
Network Controller	Integrated Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100 in a slot, upgradeable to Gigabit and 4 Port 10/100		
Expansion Slots	I/O (11 Total – 6 PCI Buses)		PCI Voltage:
	64-bit/66-MHz PCI (Hot Plug)	Slots 2 – 8, full length	Universal or 3.3 Volt keying
		Slot 9, s - length	Universal or 3.3 Volt keying
	64-bit/33-MHz PCI (Hot Plug)	Slot 1, full length	Universal or 5 Volt keying
		Slots 10 – 11, s - length	Universal or 5 Volt keying
Storage Controllers	Integrated Smart Array Controller (Ultra2) (One Internal Channel for RAID Capability for internal drives) Note: The Integrated Smart Array Controller is embedded on the system board. Optional support of Ultra3 and Fibre Channel in an I/O slot		
Storage	Diskette Drives	Integrated LS-120 Drive	
	CD-ROM	Integrated 24x IDE CD-ROM (Slim Line) Drive	
	Hard Drives	None	
	Maximum Internal Storage	291.2 GB (4 x 72.8 GB 1) (internal hot plug cage only)	
Interfaces	Parallel	1	
	Serial	2	
	Pointing Device (Mouse)	1	
	Graphics	1	
	Keyboard	1	
	USB	2 Note: Please see the following URL for additional information regarding USB support: http://www.compaq.com/products/servers/platforms/usb-support.html.	
	Network RJ-45	2	
Graphics	Embedded ATI Rage XL Video Controller with 8-MB SDRAM Video Memory		
Form Factor	7U Rack Form Factor; Ships with sliding rack rails and cable management arm; Standard 19 rack-mountable		

Product Tour

To view the Product Tour, please see the following URL, then click on "PRODUCT TOUR":
http://www5.compaq.com/products/servers/proliantdl590/index.html.

Compaq Software

Compaq ProLiant DL590/64 Server Support Software	Auto- launching CD containing browser based Compaq software including Compaq Support Paq for Microsoft Windows Advanced Server, Limited Edition and Compaq Softpaq supplemental software.
Compaq *Insight Manager* XE™	Compaq Insight Manager XE leverages the power of the Internet to provide web-based systems management, and plays a key role in Compaq's strategy to simplify IT management. Compaq Insight Manager XE reduces systems management cost, improves operational efficiency and effectiveness, and minimizes systems downtime.
Array Configuration Utility (ACU-XE) with Smart Array Controllers	Compaq Configuration Utility XE (ACU-XE) web-based software for Smart Array products and the *StorageWorks*™ RAID Array 4x00 systems by Compaq allows for ease of configuration and expandability for your disk arrays, remote configuration capabilities, and multi-platform support.

Industry Standard Compliance

ACPI 2.0 Compliant

PCI 2.2 Compliant

DIG64 1.1 Compliant

EFI 1.02 Compliant

Manageability

Compaq Insight Manager XE
ROM-Based Setup Utility (RBSU)
Integrated Management Display (IMD)
Integrated Management Log (IML)
Server Health logging
System Interconnect/Status Indicators
Remote-Flash Redundant ROM
Automatic Server-2 (ASR)
ACU-XE (Array Controller Utility-XE)
Power Supply Utility
Pre-Failure Warranty (covers processors, as well as hard drives and memory)

Availability

PCI Hot Plug with ergonomic push button functionality
Redundant Hot Plug Fans
Dynamic sector repairing and drive parameter tracking (with Smart Array controllers)
Hot Plug Dual Port 10/100 TX NIC
Redundant Hot Plug Power Supplies
Redundant Hot Plug System Power Modules
Advanced ECC Error Correction Memory
Intelligent Failover, Redundant AC line cords (with highline [180-264V] AC input)
Remote Flash Redundant ROM

Security

Power-on password
Hot plug keyboard password
Network server mode
Parallel and serial interface control
Administrator's password
System configuration lock

Hot plug access security

Power Supply

Redundant Hot Plug supplies. Power supplies are load sharing and provide 1250-watts of output power for highline (180-264 volt) AC input or 700 watts of power for lowline (90-132 volt) AC input.
Redundant Hot Plug System Power Modules
Power supplies and system power modules must be installed in a set of (1) each

System Fans

10 Redundant Hot Plug fans shipped standard.
Note: 10 fans include six, 92mm redundant hot plug fans (to cool media module and I/O) and four, 6" redundant hot plug fans (to cool processor/memory drawer).

Required Cabling

For required cabling information, refer to the Compaq Web site at:
http://www.compaq.com/products/servers/proliantDL590/.
Note: This Web site is available in English only.

OS Support

Microsoft Windows Advanced Server Limited Edition
Linux® 64 (Red Hat®, SuSE®, Caldera®)
Note: For a more complete and up-to-date listing of supported OS's and versions, please visit our OS Support Matrix at: ftp://ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf.
Note: For an up-to-date listing of the latest drivers available for the Compaq ProLiant DL590/64, please see:
http://www.compaq.com/support/files/server/us/index.html

Rack Airflow Requirements

- Rack 9000 and 10000 series Cabinets

The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The Compaq 9000 Series Rack and the new 10000 Series Racks provides enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

- Rack 7000 series Cabinets

When installing a server with processors running at speeds of 550 MHz or greater in Compaq Rack 7000 series racks with glass doors (165753-001 (42U), and 163747-001 (22U)), the new processor technology requires the installation of Compaq's new High Airflow Rack Door Inserts (327281-B21 (42U), 327281-B22 (42U 6 pack), or 157847-B21 (22U)) to promote enhanced airflow for maximum cooling.

CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:

- Front and rear doors: If your 42U server rack includes closing front and rear doors, you must allow 5,350 sq cm (830 square inches) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).
- Side: The clearance between the installed rack component and the side panels of the rack must be a minimum of 7 cm (2.75 inches)

CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels results in improper cooling that can lead to thermal damage.

Note: For additional information, refer to the Setup and Installation Guide or the Documentation CD provided with the server, or to the server documentation located in the Support section at the following URL: http://www5.compaq.com/products/servers/proliantdl590/index.html.

Service and Support

Compaq Services provides a three-year, limited warranty, including Pre-Failure Warranty (coverage of hard drives, memory and processors) fully supported by a worldwide network of resellers and service providers. Compaq technical assistance is available 7x24, toll free in the United States and Canada. Telephone support services may be covered under warranty or available for an additional fee.
Note: Limited Warranty includes 3 year Parts, 3 year Labor, 3-year on-site support.

A full range of *CarePaq* packaged hardware and software services:

- Installation and start up
- Extended coverage hours and enhanced response times
- System management and performance services
- Availability and recovery services

Note: For more information, customer/resellers can contact http://www.compaq.com/services.

Please see the following URL regarding Warranty Information For Your Compaq Products: http://www.compaq.com/support/warranty_upgrades/web_statements/176738.html.

For additional information regarding Worldwide Limited Warranty and Technical Support, please see the following URL: ftp://ftp.compaq.com/pub/supportinformation/ejourney/176738.pdf.

Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-567-1616 for details.

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Models

Model DL590/64R01 I800-4MB, 4096MB (2P)	**Processor(s)**	(2) Intel Itanium 800 MHz standard (up to 4 supported)
	Cache Memory	4-MB Level 3 writeback per processor
171597-B21	**Memory**	4096 MB (Standard) to 64 GB (Maximum) PC100 CL2 ECC SDRAM DIMMs with 2 memory expansion boards (standard)
	Network Controller	Integrated Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100 in a slot
	Storage Controller	Integrated Smart Array Controller (Ultra2)
	Hard Drives	None
	Internal Storage	291.2 GB maximum (with optional hard drives)
	Removable Media	LS-120 Drive
	Optical Drive	24x IDE CD-ROM (Slim Line) Drive
	Power	(2) Power Supplies 1250/700 watt (highline/lowline), N + 1 Hot Plug Redundant
		(2) System Power Modules, N + 1 Hot Plug Redundant
	Form Factor	7U Rack Form Factor

Model DL590/64R01 I733-2MB, 1024MB (2P)	**Processor(s)**	(2) Intel Itanium 733 MHz standard (up to 4 supported)
171596-B21	**Cache Memory**	2-MB Level 3 writeback per processor
	Memory	1024 MB (Standard) to 64 GB (Maximum) PC100 CL2 ECC SDRAM DIMMs with 1 memory expansion board (standard)
	Network Controller	Integrated Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100 in a slot
	Storage Controller	Integrated Smart Array Controller (Ultra2)
	Hard Drives	None
	Internal Storage	291.2 GB maximum (with optional hard drives)
	Removable Media	LS-120 Drive
	Optical Drive	24x IDE CD-ROM (Slim Line) Drive
	Power	(1) 1250/700 watt (highline/lowline), N + 1 Hot Plug Redundant Power Supply
		(1) System Power Modules, N + 1 Hot Plug Redundant
	Form Factor	7U Rack Form Factor

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Options

ProLiant DL590/64 Unique Options	Itanium I800-4MB Processor Option Kit	230561-B21
	Itanium I733-2MB Processor Option Kit	230560-B21
	4096-MB PC100 CL2 ECC Registered DIMMs Memory Expansion Kit (4 x 1024 MB)	232309-B21
	2048-MB PC100 CL2 ECC Registered DIMMs Memory Expansion Kit (4 x 512 MB)	232308-B21
	1024-MB PC100 CL2 ECC Registered DIMMs Memory Expansion Kit (4 x256 MB)	232307-B21
	Memory Board Option Kit Note: Memory greater than 32GB requires the purchase and installation of the Memory Board Option Kit (PN 232305-B21) for 171596-B21 733-MHz model only.	232305-B21
Processor	Itanium I800-4MB Processor Option Kit	230561-B21
	Itanium I733-2MB Processor Option Kit	230560-B21
	Note: The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted server. The Compaq 9000 Series Rack and the new 10000 Series Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.	
Software	Microsoft Windows Advanced Server Limited Edition 1.1 Note: MS Windows Advanced Server Limited Edition is available for sale only through OEMs such as Compaq. It may also be downloaded as an evaluation copy from the Microsoft Developer Network website if you are a subscriber.	253953-002

Memory (SDRAM DIMMs)	4096-MB PC100 CL2 ECC Registered DIMMs Memory Expansion Kit (4 x 1024 MB)	232309-B21
	2048-MB PC100 CL2 ECC Registered DIMMs Memory Expansion Kit (4 x 512 MB)	232308-B21
	1024-MB PC100 CL2 ECC Registered DIMMs Memory Expansion Kit (4 x256 MB)	232307-B21
	Memory Board Option Kit Note: Memory greater than 32 GB requires the purchase and installation of the Memory Board Option Kit (PN 232305-B21) for 171596-B21 733 MHz model only.	232305-B21
Hard Drives	***Wide Ultra3 Universal Drives – Hot Plug***	
	72.8-GB Wide Ultra3 SCSI 10,000 rpm Drive (1)	232432-B22
	36.4-GB Wide Ultra3 SCSI 10,000 rpm Drive (1)	176496-B22
	18.2-GB Wide Ultra3 SCSI 10,000 rpm Drive (1)	142673-B22
	36.4-GB Wide Ultra3 SCSI 15,000 rpm Drive (1)	232916-B22
	18.2-GB Wide Ultra3 SCSI 15,000 rpm Drive (1)	188122-B22
Storage Controllers	Smart Array 532 Controller	225338-B21
	Smart Array 532 Controller (Japan)	225338-291
	Smart Array 5302/32 Controller	166207-B21
	Smart Array 5302/32 Controller (Japan)	166207-291
	Smart Array 5302/64 Controller	124992-B21
	Smart Array 5302/64 Controller (Japan)	124992-291
	Smart Array 5304/128 Controller	158939-B21
	Smart Array 5304/128 Controller (Japan)	158939-291
	Smart Array 5302/128 Controller	283552-B21
	Smart Array 5302/128 Controller (Japan)	283552-291
	Smart Array 5304/256 Controller	283551-B21
	Smart Array 5304/256 Controller (Japan)	283551-291
	Integrated Smart Array Bypass Kit (long cable) Note: This Integrated Smart Array Bypass Kit (PN 212693-B21) is required when the customer chooses to install the Smart Array 5300 Controller in a 64-bit/66-MHz PCI slot to gain Ultra capability and battery-backed cache when connected to the internal hard drives.	212693-B21
	Ultra3 Channel Expansion Module for Smart Array 5300 Controller	153507-B21
	128-MB Cache Module for Smart Array 5302 Controller	153506-B21
	Advanced Data Guarding Module for Smart Array 5302 Controller	199371-B21
	256-MB Battery-Backed Cache Module Note: This 256-MB Battery-Backed Cache Module supports the Smart Array 5300 series controllers, MSA 1000 and the Smart Array Cluster Storage.	254786-B21
	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	
	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter (Japan)	
	64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	

	64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter (Japan)	
Communications	Compaq NC3123 Fast Ethernet NIC PCI 10/100 WOL	174830-B21
	Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100	138603-B21
	Compaq NC3135 Fast Ethernet Module Dual 10/100 Upgrade for the NC3134	138604-B21
	Compaq NC6132 Gigabit Module 1000 SX Upgrade Module for NC3134 and NC3131	338456-B23
	Compaq NC6133 Gigabit Module 1000LX Upgrade Module for NC3134 and NC3131	338456-B24
	Compaq NC3133 Fast Ethernet Module 100FX Upgrade Module for NC3134 and NC3131	338456-B25
	Compaq NC6136 Gigabit Server Adapter, 64-bit/66MHz, PCI, 1000 SX	203539-B21
	Compaq NC7131 Gigabit Server Adapter, 64-bit/66MHz, PCI, 10/100/1000-T	158575-B21
	Compaq NC7132 10/100/1000-T Upgrade Module for NC3134 and NC3131	153543-B21
Redundant Options	1250/700 Watt N+1 Hot Plug Redundant Power Supply and Hot Plug System Power Module	232310-B21
Monitors	Flat Panel TFT8030 Color Monitor Two-Tone	234362-xxx
	Flat Panel TFT7020 Color Monitor Two-Tone	253216-xxx
	Flat Panel TFT5030 Color Monitor Two-Tone (Carbon/Silver)	228134-xxx
	Flat Panel TFT5015 Color Monitor (Opal)	234043-xxx
	Flat Panel TFT5015 Color Monitor Two-Tone (Carbon/Silver)	234044-xxx
	P920 CRT Monitor Two-Tone (Carbon/Silver)	244375-xxx
	P720 CRT Monitor Two-Tone (Carbon/Silver)	244373-xxx
	V720 CRT Monitor Two-Tone (Carbon/Silver)	232944-xxx
	V720 CRT Monitor (Opal)	232943-xxx
	V570 Color Monitor	228114-xxx
	V570 Color Monitor Two-Tone (Carbon/Silver)	228113-xxx
	S920 Color Monitor (Opal)	240325-xxx
	S920 Color Monitor Two-Tone (Carbon/Silver)	240326-xxx
	S720 Color Monitor (Opal) (Lite-On) Note: Available in North America, Canada, and Greater China only.	239286-xxx
	S720 Color Monitor Two-tone (Carbon/Silver) (Lite-On) Note: Available in North America, Canada, and Greater China only.	239287-xxx
	S720 Color Monitor (Opal) (Samsung) Note: Available in APD, Latin America, EMEA, and Japan only.	238992-xxx

S720 Color Monitor Two-tone (Carbon/Silver) (Samsung) Note: Available in APD, Latin America, EMEA, and Japan only.	238993-xxx
TFT5010R Flat Panel Monitor (NA)	217248-001
TFT5010R Flat Panel Monitor (Int'l)	217248-B31
TFT5010R Flat Panel Monitor (Japan)	217248-291

CRT Country Code Key

NORTH AMERICA (NA)/LATIN AMERICA (LA)

Dash #	Description
-001	NA Kit with US Power Cord
-002	Carbon model with US Power Cord
-003	Touch Screen model with US Power Cord
-004	NAFTA model with US Power Cord (Made in Mexico)
-005	NA Kit with Powered Speakers
-006	GSA model with US Power Cord
-007	NH MPR model with US power cord (Made in Mexico)
-B24	TCO model without power cord (Digital Classic)
-201	EH model for Brazil (older Brazil models used -B29)
-202	EH model for Brazil Carbon (older Brazil models used -B29)
-C91	EH model for Mercosur countries
-C92	EH model for Mercosur countries Carbon
-B29	EH/ALADI model for Latin America

Note: All NA/LA models above are NH

EUROPE, MIDDLE EAST AND AFRICA (EMEA)

Dash #	Description
-021	NH/TCO with Eurocord (DCE Hub)
-022	NH/MPR with Eurocord (DCE Hub) (India)
-023	NH Carbon model with Eurocord (DCE Hub)
-024	NH Touch Screen model with Eurocord (DCE Hub)
-025	NH Kit with Speakers and Eurocord
-A91	NH/TCO without power cord (Dubai hub)
-A92	NH/MPR without power cord (Dubai hub)
-031	NH/TCO with UK Cord (UK Hub)
-032	NH/MPR with UK Cord (UK Hub)
-033	NH/TCO carbon with UK Cord
-035	NH Kit with Speakers and UK Cord
-B21	SH/MPR without power cord (S. Africa Hub)
-B23	SH/TCO without power cord (S. Africa Hub)
-B27	SH/TCO Carbon without power cord (S. Africa Hub)

PACIFIC/AUSTRALIA (APD)

Dash #	Description
-B22	NH/MPR without power cord
-B24	NH/TCO without power cord
-B25	EH Carbon model without power cord
-B26	NH Touch Screen model without power cord

-011 SH model with AUZ/NZ power cord
-015 SH model with speakers AUZ/NZ power cord
-012 SH Carbon model with AUZ/NZ power cord
-AD1 NH model for Korea
-AD2 NH Carbon model for Korea
-B28 EH model without power cord
-B35 EH model with speakers no power cord (Singapore)

GREATER CHINA (GCD)

Dash #	Description
-AA1	NH/China Kit with CCIB label (Local Sales)
-AA2	NH/ Carbon China Kit with CCIB label (Local Sales)
-KA1	NH/China Kit with CCIB label (External Sales/Bundles in HK)
-AB1	NH/Taiwan kit, manufactured in Taiwan

JAPAN (CKK)

Dash #	Description
-291	NH/Japan Kit with 3-2 pin adapter
-292	NH Carbon Japan Kit with 3-2 pin adapter

TFT Country Code Key

EUROPE, MIDDLE EAST & AFRICA (EMEA)

Dash #	Description
-021	Europe
-031	UK

NORTH AMERICA

Dash #	Description
-001	NA
-B24	All NA/LA models

APD

Dash #	Description
-011	Australia/NZ

JAPAN (CKK)

Dash #	Description
-291	Japan

Tape Drives

External DAT Tape Drives

HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Carbon) (NA)	157770-002
HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Int'l) (Carbon)	157770-B32
HP StorageWorks 20/40-GB DAT DDS-4 Tape Drive, External (Japan) (Carbon)	157770-292

Note: Please see the 20/40-GB DAT Tape Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10426_div/10426_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10426_na/10426_na.HTML (North America)

External AIT Tape Drives

HP StorageWorks External AIT 35-GB,LVD Tape Drive (Carbon)	216885-001
HP StorageWorks External AIT 35-GB,LVD Tape Drive (Carbon) (Int'l)	216885-B31
HP StorageWorks External AIT 35-GB,LVD Tape Drive (Carbon) (Japan)	216885-291

Note: Please see the AIT 35-GB, LVD Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10712_div/10712_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10712_na/10712_na.HTML (North America)

HP StorageWorks AIT 50-GB Tape Drive, External (Carbon) (NA)	157767-002
HP StorageWorks AIT 50-GB Tape Drive, External (Int'l) (Carbon)	157767-B32
HP StorageWorks AIT 50-GB Tape Drive, External (Japan) (Carbon)	157767-292
HP StorageWorks AIT 50GB Tape Drive, 3U Rackmount	274333-B21

Note: Please see the AIT 50-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10425_div/10425_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10425_na/10425_na.HTML (North America)

HP StorageWorks External AIT 100-GB Tape Drive (Carbon)	249160-001
HP StorageWorks External AIT 100-GB Tape Drive (Carbon) (Int'l)	249160-B31

Note: Please see the Compaq AIT 100-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11062_div/11062_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11062_na/11062_na.HTML (North America)

External DLT/SDLT Tape Drives

HP StorageWorks External 20/40-GB DLT Drive (opal)	340744-B22
HP StorageWorks External 20/40-GB DLT Drive (opal) (Japan)	340744-292

Note: Please see the 20/40-GB DLT Drive QuickSpecs for additional options such as data and cleaning cartridges, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10234_div/10234_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10234_na/10234_na.HTML (North America)

HP StorageWorks 40/80-GB DLT Tape Drive, External (Carbon) (NA)	146197-B22
HP StorageWorks 40/80-GB DLT Tape Drive, External (Carbon) (Japan)	146197-293
HP StorageWorks Rackmount DLT 40/80, 3U (Single Drive)	274332-B21
HP StorageWorks Rackmount DLT 40/80, Dual Drive 3U (Two Drives)	274335-B21
HP StorageWorks Rackmount DLT 40/80, Tape Array III, 5U (Four Drives)	274337-B21

Note: Please see the 40/80-GB DLT Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10658_div/10658_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10658_na/10658_na.HTML (North America)

External DLT VS Tape Drives

HP StorageWorks DLT VS 40/80 Tape Drive, External (Carbon) All	280129-B22
HP StorageWorks DLT VS 40/80 Tape Drive, External (Carbon) (WW)	280129-B31
HP StorageWorks DLT VS 40/80 Tape Drive, External (Carbon) (Japan)	280129-291

Note: Please see the DLT VS 40/80 Tape Drive QuickSpecs for additional options such as host bus adapters, controllers, cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11403_div/11403_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11403_na/11403_na.HTML (North America)

HP StorageWorks Rackmount SDLT 110/220, 3U (Single Drive)	274331-B21
HP StorageWorks Rackmount SDLT 110/220, Dual-Drive, 3U (Two Drives)	274334-B21
HP StorageWorks Rackmount SDLT 110/220, Tape Array III, 5U (Four Drives)	274336-B21

Note: Please see the SDLT 110/220-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10772_div/10772_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10772_na/10772_na.HTML (North America)

HP StorageWorks SDLT 160/320, External NA (carbon)	257319-001
HP StorageWorks SDLT 160/320, External WW (carbon)	257319-B31
HP StorageWorks SDLT 160/320, External Japan (carbon)	257319-291

Note: Please see the SDLT 160/320-GB Tape Drive QuickSpecs for additional options such as adapters, controllers, and media, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11406_div/11406_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11406_na/11406_na.HTML (North America)

External SuperLoader

DLT1 1280 SuperLoader	268664-B21

Note: Please see the *StorageWorks* DLT1 1280 SuperLoader by Compaq QuickSpecs for additional options and
for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11330_div/11330_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11330_na/11330_na.HTML (North America)

External AIT Autoloader

HP StorageWorks AIT 35 GB Autoloader, Rackmount (Carbon) (NA)	280349-001
HP StorageWorks AIT 35 GB Autoloader, Rackmount (Carbon) (Int'l)	280349-B31

Note: Please see the AIT 35-GB Autoloader QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/11404_div/11404_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/11404_na/11404_na.HTML (North America)

External DAT Autoloader

20/40-GB DAT 8 Cassette Autoloader External (Opal)	166505-001
20/40-GB DAT 8 Cassette Autoloader External (Opal) (Int'l)	166505-B31
20/40-GB DAT 8 Cassette Autoloader External (Opal) (Japan)	166505-291

Note: Please see the 20/40-GB DAT DDS-4 8 Cassette Autoloader QuickSpecs for additional options such as adapters, controllers, and cassettes, and for an up-to-date listing of the latest O/S Support details, please see the following:
http://www5.compaq.com/products/quickspecs/10518_div/10518_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10518_na/10518_na.HTML (North America)

Rackmount Tape Drive Kits

3U Rackmount Kit Note: The 3U Rackmount Kit (PN 274338-B21) can support up to (2) full-height or (4) half-height tape drives and compatible with multiple Single-Ended and LVD SCSI Tape Drives including the 12/24-GB DAT, 20/40-GB DAT, 20/40-GB DAT DDS-4 8 Cassette Autoloader, AIT 35-GB LVD, AIT 50-GB, 20/40-GB DLT, 40/80-GB DLT, and the SDLT 110/220-GB Tape Drives.	274338-B21
5U Rackmount Kit Note: The 5U Rackmount Kit (PN 274339-B21) can support up to (4) full-height tape drives and is compatible with all Compaq DLT/SDLT tape drives including the 20/40-GB DLT, 35/70-GB DLT, 40/80-GB DLT, and the SDLT 110/220-GB tape drives.	274339-B21

Note: Please see the Compaq Rackmount Tape Drive Kits QuickSpecs for additional information regarding these kits, please see the following:
http://www5.compaq.com/products/quickspecs/10854_div/10854_div.HTML (Division/World Wide)
http://www5.compaq.com/products/quickspecs/10854_na/10854_na.HTML (North America)

Rackmount Tape Drive Cable Kits

LVD Cable Kit, VHDCI/HD68 Note: For use with the 3U RM Storage Enclosure and DLT Tape Array III only.	168048-B21
LVD Cable Kit, HD68/HD68 Note: For use with the 3U RM Storage Enclosure and DLT Tape Array III only.	242381-B21

Tape Automation

Entry Level Tape Libraries

SSL2020 Automated AIT Library

SSL2020 AIT Mini-Library 1 drive, 20 slot Rackmount	175196-B21
SSL2020 AIT Mini-Library 2 drive, 20 slot Rackmount	175196-B22
SSL2020 AIT Library Pass Thru with Transport	175312-B21
SSL2020 AIT Library Pass Thru Extender	175312-B22
AIT 50-GB Drive Add-On LVD Drive for SSL2020 AIT Library	175197-B21

Required Adapters/Controllers for SSL2020 AIT Library

64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter (Japan)	129803-291
SAN Access Module for Smart Array 5302 Controller	216687-B21
SAN Access Module for Smart Array 5302 Controller (Japan)	216687-291
Smart Array 5302/FC Controller	216688-B21
Smart Array 5302/FC Controller (Japan)	216688-291

Note: Please see the SSL2020 Automated AIT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at: http://www5.compaq.com/products/quickspecs/10580_na/10580_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/10580_div/10580_div.HTML (Division/World Wide)

MSL5000 Libraries

Mainstream Tape Library

MSL5026DLX DLT Library

MSL5026DLX, 1 40/80-GB DLT, LVD Rackmount	231891-B21
MSL5026DLX, 2 40/80-GB DLT, LVD Rackmount	231891-B22

MSL5026SL SDLT Library

MSL5026SL Library, SDLT 110/220, 1 Drive, LVD, Rackmount	231892-B21
MSL5026SL Library, SDLT 110/220, 2 Drives, LVD, Rackmount	231892-B22
MSL5K Field Upgrade SDLT 110/220 Drive, LVD	231823-B22

Note: Please see the *StorageWorks* MSL5026DLX or MSL5026SL Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at: http://www5.compaq.com/products/quickspecs/10860_na/10860_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/10860_div/10860_div.HTML (Division/World Wide)

Departmental Tape Library

MSL5052SL SDLT Library

MSL5052, 0 Drive, LVD, Rackmount	255102-B21
MSL50502SL, SDLT, 110/220, 2 Drives, LVD, Rackmount	249491-B21
MSL5K Field Upgrade SDLT 110/220 Drive, LVD	231823-B22

Note: Please see the *StorageWorks* MSL5052SL Library QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at: http://www5.compaq.com/products/quickspecs/11061_na/11061_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11061_div/11061_div.HTML (Division/World Wide)

Required Adapters for MSL5000 series Libraries

64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21
64-Bit/66-Mhz Dual Channel Wide Ultra3 SCSI Adapter (Japan)	129803-291

Enterprise 9000 System Library

ESL9198SL SDLT Library

ESL9198 Enterprise Library LVD, 0 Drives	194993-B21
ESL9198SL Enterprise Library, LVD 4 110/220 SDLT Drives	234618-B21
ESL9198SL Enterprise Library, LVD 8 110/220 SDLT Drives	234618-B22
ESL9000 Field Upgrade SDLT 110/220, LVD Drive (ESL9198SL, ESL9326SL only)	234617-B21

Note: Please see the *StorageWorks* ESL9198SL Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/10867_na/10867_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/10867_div/10867_div.HTML (World Wide)

Required Adapters for ESL9198 Libraries

64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter Note: 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries (ESL9198DLX).	129803-B21
64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter (Japan) Note: 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries (ESL9198DLX).	129803-291

ESL9326SL SDLT Library

ESL9326SL Enterprise Library LVD 0 Drives	234488-B21
ESL9326SL Enterprise Library LVD 6 110/220 SDLT Drives	234615-B21
ESL9326SL Enterprise Library LVD 8 110/220 SDLT Drives	234615-B22
ESL9326SL Enterprise Library LVD 16 110/220 SDLT Drives	234615-B26
ESL9000 Field Upgrade SDLT 110/220, LVD Drive (ESL9198SL, ESL9326SL, ESL9595)	234617-B21

Required Adapters for ESL9326SL Libraries

64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter Note: 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries (ESL9326SL).	129803-B21

	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter (Japan) Note: 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries (ESL9326SL).	129803-291

Note: Please see the *StorageWorks* ESL9326SL Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/10868_na/10868_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/10868_div/10868_div.HTML (World Wide)

ESL9595SL SDLT Library

ESL9595SL Enterprise Library, 400 slot, 2 Drive	274672-B21
ESL9595SL Enterprise Library, 400 slot, 16 Drive	274672-B22
ESL9595SL Enterprise Library, 500 slot, 2 Drive	281627-B22
ESL9595SL Enterprise Library, 500 slot, 16 Drive	281627-B24
ESL9595SL Enterprise Library, 595 slot, 2 Drive	281628-B25
ESL9595SL Enterprise Library, 595 slot, 16 Drive	281628-B26
ESL9595 500 Slot Upgrade	274674-B21
ESL9595 595 Slot Upgrade	274674-B22
ESL9000 Field Upgrade SDLT 110/220, LVD Drive (ESL9198SL, ESL9326SL, ESL9595SL)	234617-B21

Required Adapters for ESL9595SL Libraries

64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter Note: 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries (ESL9595SL).	129803-B21
64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter (Japan) Note: 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter is required to support the LVD based libraries (ESL9595SL).	129803-291

Note: Please see the *StorageWorks* ESL9595SL Enterprise Library QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at:
http://www5.compaq.com/products/quickspecs/11332_na/11332_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/11332_div/11332_div.HTML (World Wide)

External Storage - Rack

StorageWorks Enclosure Model 4314R (rack-mountable) by Compaq	190209-001
StorageWorks Enclosure Model 4314R (rack-mountable) (Int'l)	190209-B31
StorageWorks Enclosure Model 4314R (rack-mountable) (Japan)	190209-291
StorageWorks Enclosure Model 4354R (rack-mountable)	190211-001

	StorageWorks Enclosure Model 4354R (rack-mountable) (Int'l)	190211-B31
	StorageWorks Enclosure Model 4354R (rack-mountable) (Japan)	190211-291
	Note: The *StorageWorks* Enclosure 4300 Family support the Wide Ultra2/Ultra3 1 Hot Plug Hard Drives.	
	StorageWorks Enclosure 4200 Redundant Power Supply Option	119826-B21
	StorageWorks Enclosure 4200 Ultra3 Single Bus I/O Module Option	190212-B21
	StorageWorks Enclosure 4200 Ultra3 Dual Bus I/O Module Option	190213-B21
	StorageWorks Enclosure Tower to Rack Conversion Kit	150213-B21
***StorageWorks* RAID Array 4100**	*StorageWorks* Raid Array 4100 (rack)	146013-001
	StorageWorks Raid Array 4100 (rack) (Int'l)	146013-B31
	StorageWorks Raid Array 4100 (rack) (Japan)	146013-291
	Fibre Channel Storage Hub 7	234453-001
	Fibre Channel Storage Hub 7 (Int'l)	234453-B31
	Fibre Channel Storage Hub 7 (Japan)	234453-291
	Compaq Storage Hub 7 Universal Rack Mount Kit	136127-B21
	StorageWorks Fibre Channel Arbitrated Loop Switch 8	177862-B21
	StorageWorks Fibre Channel Arbitrated Loop Switch 8 (Japan)	177862-291
	StorageWorks Fibre Channel Arbitrated Loop 3-Port Expansion Module	177863-B21
	StorageWorks Fibre Channel SAN Switch 8-EL	176219-B21
	StorageWorks Fibre Channel SAN Switch 16-EL	212776-B21
	Fibre Channel SAN Switch 8-port with Fabric Operating Software	158222-B21
	64-bit/66-MHz Fibre Channel Host Adapter	120186-B21
	64-bit/66-MHz Fibre Channel Host Adapter (Japan)	120186-291
	GBIC-SW Connector Kit (two each)	234459-B21
	GBIC-LW Connector Kit (two each)	340412-B21
	Fibre Channel Connection Kit, 3 SW GBICS, 2 Cables	380579-B21
	Fibre Channel Connection Kit, 2 SW GBICS, 2 Cables	380596-B21
	Fibre Channel Short Wave GBIC	380561-B21
	Fibre Channel Long Wave GBIC	127508-B21
	Fibre Channel Array Controller 64-MB Cache Upgrade Kit	262398-B21
	2m Multi-Mode Fibre Channel Cable	234457-B21
	5m Multi-Mode Fibre Channel Cable	234457-B22
	15m Multi-Mode Fibre Channel Cable	234457-B23
	30m Multi-Mode Fibre Channel Cable	234457-B24
	50m Multi-Mode Fibre Channel Cable	234457-B25

Note: Please see the *StorageWorks* RAID Array 4100 QuickSpecs for FC Hubs, FC switches, software support, host adapters/controllers, disks, and options for complete solutions at:
http://www5.compaq.com/products/quickspecs/10435_na/10435_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/10435_div/10435_div.HTML (Division/World Wide)

***StorageWorks* Modular Array 8000/Enterprise Modular Array 12000**	EMA12000 D14 60Hz	175990-B21
	EMA12000 D14 50Hz	175990-B22
	EMA12000 S14 60Hz	175991-B21
	EMA12000 S14 50Hz	175991-B22
	MA8000 60Hz	175992-B21
	MA8000 50Hz	175992-B22
	EMA12000 Blue 60Hz	175993-B21
	EMA12000 Blue 50Hz	175993-B22
	StorageWorks 64-Bit/33-MHz PCI-to-Fibre Channel Host Bus Adapter for NT	176479-B21

Note: Options include controller, solution kits, ACS. MA8000/EMA12000 includes controller shelf, drive shelves and cabinet. Packaging upgrade to RA8000/ESA12000.

Note: Please see the *StorageWorks* MA8000/EMA12000 QuickSpecs for FC switches, platform software, host adapters, disks and options for complete solutions at:
http://www5.compaq.com/products/quickspecs/10545_na/10545_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/10545_div/10545_div.HTML (Division/World Wide)

***StorageWorks* Enterprise Modular Array 16000 FC**	EMA16000 D14 50Hz (opal)	238792-B22
	EMA16000 D14 60Hz (opal)	238792-B21
	EMA16000 S14 50Hz (opal)	238791-B22
	EMA16000 S14 60Hz (opal)	238791-B21
	StorageWorks 64-Bit/33-MHz PCI-to-Fibre Channel Host Bus Adapter for NT	176479-B21

Note: Models include: Dual HSG80 controllers in each Model 2200 enclosure (2 pairs per single bus configuration, 4 pairs per dual bus configuration) with 1GB cache per controller pair, and 12 14-bay drive enclosures with redundant power supplies. Configure-to-Order (CTO) builds are available. Options include ACS, platform kits and *SANworks*™ software by Compaq.
Note: Please see the *StorageWorks* EMA16000 QuickSpecs for FC switches, platform software, host adapters, disks and options for complete solutions at:
http://www5.compaq.com/products/quickspecs/10812_na/10812_na.HTML (North America)
http://www5.compaq.com/products/quickspecs/10812_div/10812_div.HTML (Division/World Wide)

***StorageWorks* Options**	Fibre Channel SAN Switch/8 with Fabric Operating Software	158222-B21
	StorageWorks SAN Switches Integrated/32	230616-B21
	StorageWorks SAN Switches Integrated/64	230617-B21
	StorageWorks Fibre Channel SAN Switches 8-EL	176219-B21
	StorageWorks Fibre Channel SAN Switches 16-EL	212776-B21
Compaq UPS Power Cord Reference Guide	***Please see the Compaq UPS Power Cord Reference Guide that lists cable descriptions, requirements, and specifications for Compaq UPS units.*** ftp://ftp.compaq.com/pub/products/servers/proliantstorage/power-protection/powercordmatrix.pdf.	
Uninterruptible Power Systems – Rack Mountable	Compaq UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA)	204404-001
	Compaq UPS R1500 XR (1500VA, 1340 Watt), High Voltage (Int'l)	204404-B31
	Compaq UPS R1500 XR (1500VA, 1340 Watt), Low Voltage (Japan)	204404-291
	Compaq UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA)	192186-001
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA)	192186-002
	Compaq UPS R3000 XR (2400VA, 2250 Watt), Low Voltage (Japan)	192186-291
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan)	192186-292
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord)	192186-B31
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug)	192186-B32
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A CEE 7/7 SCHUKO Plug)	192186-B33
	Compaq UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A BS-546 Plug)	192186-AR1
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (NA)	347207-001
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (Int'l)	347207-B31
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (Japan)	347207-291
	Compaq UPS R12000 XR, N+x (12KVA, 12KW)	207552-B22
UPS Options	SNMP Serial Port Card Note: Supports tower and rack UPS XR models ranging from 1000 – 3000VA.	192189-B21
	Six Port Card Note: Supports tower and rack UPS XR models ranging from 1000 – 3000VA.	192185-B21

	High to Low Voltage Transformer (250VA) Note: Supports R6000 UPS series only. 2.5 amps @ 125 Volts max output across two Nema 5-15.	388643-B21
	Extended Runtime Module, R1500 XR Note: 2U each, two ERM maximum.	218971-B21
	Extended Runtime Module, R3000 XR Note: 3U each, one ERM maximum.	192188-B21
	Extended Runtime Module, R6000 Note: 3U each, two ERM maximum.	347224-B21
	Extended Runtime Module, R12000 XR, 4U	217800-B21
	SNMP-EN Adapter Note: Supports R6000 UPS series only.	347225-B21
	Multi-Server UPS Card Note: Supports R6000 UPS series only.	123508-B21
	Scalable UPS Card Note: Supports R6000 UPS series only.	123509-B21
Rack-Mountable PDUs – 1U/0U (Up to 12 outlets)	Compaq Power Distribution Unit-40A (200 to 240V)	207590-B23
	Note: Please see the following Power Distribution Unit (Zero-U/1U PDU) QuickSpecs for additional options including cables: http://www5.compaq.com/products/quickspecs/10838_na/10838_na.HTML (North America) http://www5.compaq.com/products/quickspecs/10838_div/10838_div.HTML (Division/World Wide)	
Modular PDUs 1U/0U (Up to 32 outlets)	Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC) (NA, Japan) Note: The Modular PDUs Model 24A & 32A need to plug-in the DL590/64 directly into the Control Unit.	252663-D71
	Modular Power Distribution Units (mPDU), High Volt Model, 24A (200-240 VAC) (NA, Japan) Note: The Modular PDUs Model 24A & 32A need to plug-in the DL590/64 directly into the Control Unit.	252663-D72
	Modular Power Distribution Units (mPDU), High Volt Model, 32A (200-240 VAC) (Int'l) Note: The Modular PDUs Model 24A & 32A need to plug-in the DL590/64 directly into the Control Unit.	252663-B31
	Modular Power Distribution Units (mPDU), High Volt Model, 40A (200-240 VAC) (WW)	252663-B21
	Note: Please see the following Modular Power Distribution Unit (Zero-U/1U Modular PDUs) QuickSpecs for additional options including cables: http://www5.compaq.com/products/quickspecs/11041_na/11041_na.HTML (North America) http://www5.compaq.com/products/quickspecs/11041_div/11041_div.HTML (Division/World Wide)	
Rack Builder	***Please see the Compaq Rack Builder for configuration assistance at*** http://www.compaq.com/rackbuilder/	

Compaq Rack 10000 Series (Graphite Metallic)	Compaq Rack 10842 (42U, 800mm wide) – Pallet	257415-B21
	Compaq Rack 10842 (42U, 800mm wide) – Shock Pallet Note: Not available in North America.	257415-B22
	Compaq Rack 10647 (47U) – Pallet	245160-B21
	Compaq Rack 10647 (47U) – Crated	245160-B23
	Compaq Rack 10642 (42U) – Pallet	245161-B21
	Compaq Rack 10642 (42U) – Shock Pallet	245161-B22
	Compaq Rack 10642 (42U) – Crated	245161-B23
	Compaq Rack 10636 (36U) – Pallet	245162-B21
	Compaq Rack 10636 (36U) – Shock Pallet	245162-B22
	Compaq Rack 10636 (36U) – Crate	245162-B23
	Compaq Rack 10622 (22U) – Pallet	245163-B21
	Compaq Rack 10622 (22U) – Shock Pallet	245163-B22
	Compaq Rack 10622 (22U) – Crated	245163-B23
	Note: -B21 (pallet) used to ship empty racks shipped on a truck -B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels) -B23 (crated) used for air shipments of empty racks	
Compaq Rack 9000 Series (Opal)	Compaq Rack 9142 (42U) – Pallet	120663-B21
	Compaq Rack 9142 (42U) – Shock Pallet	120663-B22
	Compaq Rack 9142 (42U) – Crated	120663-B23
	Compaq Rack 9136 (36U) – Pallet	120664-B21
	Compaq Rack 9136 (36U) – Shock Pallet	120664-B22
	Compaq Rack 9136 (36U) – Crated	120664-B23
	Compaq Rack 9122 (22U) – Pallet	120665-B21
	Compaq Rack 9122 (22U) – Shock Pallet	120665-B22
	Compaq Rack 9122 (22U) – Crated	120665-B23
	Compaq Rack 9842 (800mm wide, 42U) – Pallet	222192-B21
	Note: -B21 (pallet) used to ship empty racks shipped on a truck -B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels) -B23 (crated) used for air shipments of empty racks	
Rack Options for Compaq Rack 10000 Series	Rack Blanking Panels – Graphite (Multi) Note: Contains one each of 1U, 2U, 3U, and 4U panel.	253214-B26
	Rack Blanking Panels – Graphite (1U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (1U).	253214-B21
	Rack Blanking Panels – Graphite (2U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (2U).	253214-B22
	Rack Blanking Panels – Graphite (3U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (3U).	253214-B23
	Rack Blanking Panels – Graphite (4U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (4U).	253214-B24

	Rack Blanking Panels – Graphite (5U) Note: The Rack Blanking Panels (PN 253214-B21) contains 10 each of (5U).	253214-B25
	800mm Wide Stabilizer Kit (Graphite) Note: Supported by the Rack 10842 cabinet only.	255488-B21
	600mm Stabilizer Kit – Graphite	246107-B21
	Baying Kit for Rack 10000 series (Carbon)	248929-B21
	42U Side Panel – Graphite Metallic	246099-B21
	110V Fan Kit (Graphite) Note: Roof Mount Includes power cord withIEC320-C13 to Nema 5-15P.	257413-B21
	220V Fan Kit (Graphite) Note: Roof Mount Includes power cord with IEC320-C13 to Nema 6-15P.	257414-B21
	36U Side Panel – Graphite Metallic	246102-B21
	47U Side Panel – Graphite Metallic	255486-B21
	9000/10000 Series Offset Baying Kit Note: This kit can be used to connect 9000 and 10000 series racks of the same U height together. Kit contents include hardware for connecting racks and a panel to cover the 100mm gap at the rear of the two racks.	248931-B21
Rack Options for Compaq Rack 9000 Series	Baying/Coupling Kit	120669-B21
	42U Side Panel Note: The 42U Side Panel (PN 120670-B21) supports the Compaq Rack 9142 and Compaq Rack 9842.	120670-B21
	36U Side Panel Note: The 36U Side Panel (PN 120671-B21) supports the Compaq Rack 9136.	120671-B21
	800mm Stabilizer Option Kit (Opal) Note: The 800mm Stabilizer Kit (PN 234493-B21) supports the Rack 9842 only.	234493-B21
	600mm Stabilizer Option Kit	120673-B21
	9142 Extension Kit Note: The 9142 Extension Kit (PN 120679-B21) supports the Compaq Rack 9142 only.	120679-B21
	9142 Split Rear Door Note: The 9142 Split Rear Door (PN 254045-B21) supports the 600 mm wide, 42U 9000 series rack.	254045-B21
	9136 Extension Kit	218216-B21
	9142 Short Rear Door Note: The 9142 Short Rear Door (PN 218217-B21) supports the Compaq Rack 9142 only.	218217-B21
	9136 Short Rear Door	218218-B21
	9122 Short Rear Door (Opal)	218219-B21
	Rack Blanking Panel (Multi) Note: Kit includes four panels in 1U, 2U, 4U, and 8U.	169940-B21
	Rack Blanking Panels (1U) Note: The Rack Blanking Panels (PN 189453-B21) contains 10 each of (1U).	189453-B21

	Rack Blanking Panels (2U) Note: The Rack Blanking Panels (PN 189453-B22) contains 10 each of (2U).	189453-B22
	Rack Blanking Panels (3U) Note: The Rack Blanking Panels (PN 189453-B23) contains 10 each of (3U).	189453-B23
	Rack Blanking Panels (4U) Note: The Rack Blanking Panels (PN 189453-B24) contains 10 each of (4U).	189453-B24
	Rack Blanking Panels (5U) Note: The Rack Blanking Panels (PN 189453-B25) contains 10 each of (5U).	189453-B25
	800mm Stabilizer Option Kit (Opal) Note: The 800mm Stabilizer Kit (PN 234493-B21) supports the Rack 9842 only.	234493-B21
	9000/10000 Series Offset Baying Kit Note: This kit can be used to connect 9000 and 10000 series racks of the same U height together. Kit contents include hardware for connecting racks and a panel to cover the 100mm gap at the rear of the two racks.	248931-B21
Rack Options for Compaq Rack 7000 Series	High Air Flow Rack Door Insert for the 7122 Rack	157847-B21
	High Air Flow Rack Door Insert for the 7142 Rack (single)	327281-B21
	High Air Flow Rack Door Insert for the 7142 Rack (6-pack)	327281-B22
	Compaq Networking Cable Management Kit	292407-B21
	Compaq Networking Recessed Rail Management Kit	292406-B21
	Compaq Rack Extension Kit for 7142	154392-B21
Rack Options for Compaq Rack 7000, 9000 and 10000 Series	Monitor Utility Shelf	303606-B21
	Ballast Option Kit	120672-B21
	Stabilizer Option Kit	120673-B21
	100kg Sliding Shelf	234672-B21
	Rack Rail Adapter Kit (25 depth)	120675-B21
	Monitor/Utility Shelf - Graphite	253449-B21
	Depth Adjustable Fixed Rail	332558-B21
	Cable Management D-Rings Kit	168233-B21
	Console Management Controller (CMC) Option Kit	203039-B21
	Console Management Controller (CMC) Sensors Option Kit	203039-B22
	Console Management Controller (CMC) Locking Option Kit	203039-B23
	Console Management Controller (CMC) Smoke Sensors Option Kit	203039-B24
	Server Console Switch 1 x 2 port (100 to 230 VAC)	120206-001
	Server Console Switch 1 x 2 port (100 to 230 VAC) (Int'l)	120206-B31
	Server Console Switch 1 x 2 port (100 to 230 VAC) (Japan)	120206-291
	Server Console Switch 1 x 4 port (100 to 230 VAC)	400336-001
	Server Console Switch 1 x 4 port (100 to 230 VAC) (Int'l)	400336-B31
	Server Console Switch 1 x 4 port (100 to 230 VAC) (Japan)	400336-291
	Server Console Switch 1 x 8 port (100 to 230 VAC)	400337-001

Server Console Switch 1 x 8 port (100 to 230 VAC) (Int'l)	400337-B31
Server Console Switch 1 x 8 port (100 to 230 VAC) (Japan)	400337-291
Server Console Switch 2 x 8 port (100 to 230 VAC)	400338-001
Server Console Switch 2 x 8 port (100 to 230 VAC) (Int'l)	400338-B31
Server Console Switch 2 x 8 port (100 to 230 VAC) (Japan)	400338-291
Server Console Switch 2 x 8 port (48VDC)	400542-B21
CPU to Server Console Cable, 12	110936-B21
CPU to Server Console Cable, 20	110936-B22
CPU to Server Console Cable, 40	110936-B23
CPU to Server Console Cable, 3	110936-B24
CPU to Server Console Cable, 7	110936-B25
CPU to Server Console Cable (Plenum Rated) 20	149363-B21
CPU to Server Console Cable (Plenum Rated) 40	149364-B21
Switch Box Connector Kit (115V)	144007-001
Switch Box Connector Kit (230V)	144007-002
Switch Box Connector Kit (high voltage)	144007-B33
KVM 9 PIN Adapter (4 Pack)	149361-B21
TFT5600 RKM Rack Keyboard Monitor (US)	221546-001
TFT5600 RKM Rack Keyboard Monitor (UK)	221546-031
TFT5600 RKM Rack Keyboard Monitor (Germany)	221546-041
TFT5600 RKM Rack Keyboard Monitor (France)	221546-051
TFT5600 RKM Rack Keyboard Monitor (Italy)	221546-061
TFT5600 RKM Rack Keyboard Monitor (Spain)	221546-071
TFT5600 RKM Rack Keyboard Monitor (Denmark)	221546-081
TFT5600 RKM Rack Keyboard Monitor (Norway)	221546-091
TFT5600 RKM Rack Keyboard Monitor (Sweden/Finland)	221546-101
TFT5600 RKM Rack Keyboard Monitor (Swiss)	221546-111
TFT5600 RKM Rack Keyboard Monitor (Portugal)	221546-131
TFT5600 RKM Rack Keyboard Monitor (Belgium)	221546-181
TFT5600 RKM Rack Keyboard Monitor (Japan)	221546-291
TFT5600 RKM Rack Keyboard Monitor (Int'l)	221546-B31
Keyboard with Hot Keys and Trackball (US)	158649-001
Keyboard with Hot Keys and Trackball (UK)	158649-003
Keyboard with Hot Keys and Trackball (German)	158649-004
Keyboard with Hot Keys and Trackball (French)	158649-005
Keyboard with Hot Keys and Trackball (Italian)	158649-006
Keyboard with Hot Keys and Trackball (Spanish)	158649-007
Keyboard with Hot Keys and Trackball (Danish)	158649-008
Keyboard with Hot Keys and Trackball (Norwegian)	158649-009
Keyboard with Hot Keys and Trackball (Swedish)	158649-010
Keyboard with Hot Keys and Trackball (Swiss)	158649-011
Keyboard with Hot Keys and Trackball (Portuguese)	158649-013
Keyboard with Hot Keys and Trackball (Belgian)	158649-018
Keyboard with Hot Keys and Trackball (Japan)	158649-291

	Keyboard with Hot Keys and Trackball (Int'l)	158649-B36
	PCI KVM Management Card Kit	232983-B21
	PCI KVM Remote Card Kit	232984-B21
	Local Access Cable Kit	232985-B21
	1U Rack Keyboard Drawer	338056-B21
	Keyboard/Monitor/Mouse extension cables	169989-001
Service and Support Offerings (CarePaq Services)	***Hardware Installation***	
	Hardware Only Installation (6-3 Part Number for US)	250151-002
	Hardware Only Installation (6-3 Part Number for EMEA)	204564-022
	Installation & Set-up Services	
	3 Years On-Site Hardware, 4 hour response, 9 x 5 (6-3 Part Number for US)	250155-002
	3 Years On-Site Hardware, 4 hour response, 9 x 5 (6-3 Part Number for EMEA)	206972-022
	3 Years On-Site Hardware, 4 hour response, 24 x 7 (6-3 Part Number for US)	250157-002
	3 Years On-Site Hardware, 4 hour response, 24 x 7 (6-3 Part Number for EMEA)	206973-022
	Windows .NET Advanced Server LE Installation & Startup Package (6-3 Part Number for US)	277576-002

Note: For more information, customer/resellers can contact http://www.compaq.com/services.

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Memory

Compaq ProLiant DL590/64 800 MHz-4MB

Standard Memory

4096-MB PC100 CL2 ECC Registered DIMM memory (two kits of 4 x 512-MB DIMMs)

Memory Plus Optional Memory

Up to 64-GB of PC100 CL2 ECC Registered DIMM memory is supported with the installation of optional SDRAM DIMM memory expansion kits.

Note: The second memory board ships standard with the DL590/64 800 MHz-4MB Model.

Note: 64 slots with 4 per bank. Up to 64-GB memory total. Memory must be added in banks of four DIMMs. Charts do not represent all possible configurations.

Note: Compaq strongly recommends using DIMMs supplied by Compaq. The ProLiant DL590/64 supports industry standard 168-pin PC100 CL2 ECC Registered DIMMs with the following restrictions: Tdal = 3 Tclks, Trc = 6 Tclks when operating at Tclk = 15 ns (66.67 MHz), as required by the Intel460GX chip set. The use of DIMMs that do not adhere to these restrictions may result in error messages and possible loss of data. Check with your authorized Compaq representative for correct memory.

Memory		Slot on Memory Board One							
		1	2	3	4	5	6	7	8
Standard	4096 MB	512 MB	512MB	512MB	512MB	512MB	512MB	512MB	512MB
Maximum	64 GB	1024MB	1024MB	1024MB	1024MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board One							
		9	10	11	12	13	14	15	16
Standard	4096 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board One							
		17	18	19	20	21	22	23	24
Standard	4096 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board One							
		25	26	27	28	29	30	31	32
Standard	4096 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board Two							
		1	2	3	4	5	6	7	8
Standard	4096 MB	512MB	512MB	512MB	512MB	Empty	Empty	Empty	Empty
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board Two							
		9	10	11	12	13	14	15	16
Standard	4096 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board Two							
		17	18	19	20	21	22	23	24
Standard	4096 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board Two							
		25	26	27	28	29	30	31	32
Standard	4096MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Following are memory options available from Compaq:

- 4096-MB PC100 CL2 ECC Registered DIMMs Memory Expansion Kit (4 x 1024 MB) 232309-B21
- 2048-MB PC100 CL2 ECC Registered DIMMs Memory Expansion Kit (4 x 512 MB) 232308-B21
- 1024-MB PC100 CL2 ECC Registered DIMMs Memory Expansion Kit (4 x 256 MB) 232307-B21

Compaq ProLiant DL590/64 733 MHz-2MB

Standard Memory

1024-MB PC100 CL2 ECC Registered DIMM memory (one kit of 4 x 256-MB DIMMs)

Standard Memory Plus Optional Memory

Up to 61-GB of PC100 CL2 ECC Registered DIMM memory is supported with the installation of optional PC100 CL2 ECC Registered DIMM memory expansion kits.

Standard Memory Replaced with Optional Memory

Up to 64-GB of PC100 CL2 ECC Registered DIMM memory is available with the removal of standard memory and the installation of optional PC100 CL2 ECC Registered DIMM memory expansion kits.

Note: The below configurations presumes that the optional second memory board is installed.
Note: 64 slots with 4 per bank. Up to 64-GB memory total. Memory must be added in banks of four DIMMs. Charts do not represent all possible configurations.
Note: Compaq strongly recommends using DIMMs supplied by Compaq. The ProLiant DL590/64 supports industry standard 168-pin PC100 CL2 ECC Registered DIMMs with the following restrictions: Tdal = 3 Tclks, Trc = 6 Tclks when operating at Tclk = 15 ns (66.67 MHz), as required by the Intel460GX chip set. The use of DIMMs that do not adhere to these restrictions may result in error messages and possible loss of data. Check with your authorized Compaq representative for correct memory.

Memory		Slot on Memory Board One							
		1	2	3	4	5	6	7	8
Standard	1024 MB	256MB	256MB	256MB	256MB	Empty	Empty	Empty	Empty
Optional	61 GB	256MB	256MB	256MB	256MB	1024MB	1024MB	1024MB	1024MB
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board One							
		9	10	11	12	13	14	15	16
Standard	1024 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Optional	61 GB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024 MB
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board One							
		17	18	19	20	21	22	23	24
Standard	1024 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Optional	61 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board One							
		25	26	27	28	29	30	31	32
Standard	1024 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Optional	61 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board Two							
		1	2	3	4	5	6	7	8
Standard	1024 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Optional	61 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board Two							
		9	10	11	12	13	14	15	16
Standard	1024 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Optional	61 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board Two							
		17	18	19	20	21	22	23	24
Standard	1024 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Optional	61 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Memory		Slot on Memory Board Two							
		25	26	27	28	29	30	31	32
Standard	1024 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Optional	61 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB
Maximum	64 GB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Following are memory options available from Compaq:

- 4096-MB PC100 CL2 ECC Registered DIMMs Memory Expansion Kit (4 x 1024 MB) 232309-B21
- 2048-MB PC100 CL2 ECC Registered DIMMs Memory Expansion Kit (4 x 512 MB) 232308-B21
- 1024-MB PC100 CL2 ECC Registered DIMMs Memory Expansion Kit (4 x 256 MB) 232307-B21
- Memory Board Option Kit 232305-B21

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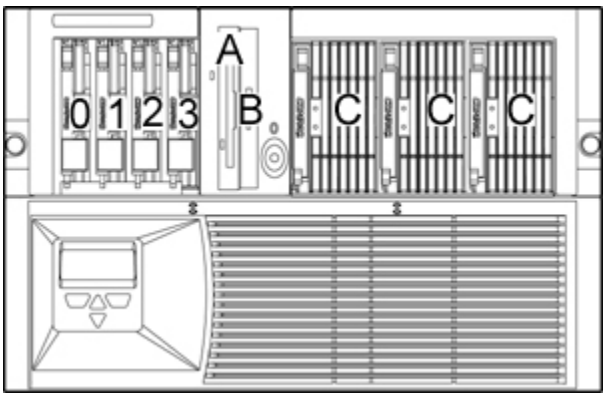

0 - 3	Four 1 Ultra2/Ultra3 Hot Plug drive bays
A	Integrated LS-120 Drive
B	Integrated 24x IDE CD-ROM (Slim Line)
C	Hot Plug Power Supplies (3)

Drive Support

	Quantity Supported	Position Supported	Controller
Integrated Media			
Integrated LS-120 Drive	Up to 1	A	Integrated IDE

Integrated 24x IDE CD-ROM Drive (Slim Line)	Up to 1	B	Integrated IDE

Hard Drives

Wide Ultra3 Hot Pluggable Drives

1-inch 72.8-GB 10,000 rpm 36.4-GB 10,000 rpm 18.2-GB 10,000 rpm 36.4-GB 15,000 rpm 18.2-GB 15,000 rpm	Up to 4	0-3	Integrated Smart Array Controller Smart Array 532 Controller Smart Array 5302/32 Controller Smart Array 5302/64 Controller Smart Array 5302/128 Controller Smart Array 5304/128 Controller Smart Array 5304/256 Controller 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter

External Storage

StorageWorks Enclosure 4300 Family (supports Wide Ultra2/Ultra3 drives)	Up to 40	External	Smart Array 532 Controller Smart Array 5302/32 Controller Smart Array 5302/64 Controller Smart Array 5302/128 Controller Smart Array 5304/128 Controller Smart Array 5304/256 Controller 64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
StorageWorks Raid Array 4100 Kit	Up to 10 (with optional *StorageWorks* Hubs or Switches)	External	64-bit/66-Mhz Fibre Channel Host Adapter

Maximum Storage Capacity – (*StorageWorks* Enclosure SCSI Attached)

Internal	291.2 GB (4 x 72.8-GB hot pluggable drives)
External	40.768 TB (40 x (14 x 72.8 GB 1 Wide Ultra3))
Total	41.059 TB

Maximum Storage Capacity – (External RAID Array 4100 Attached)

Internal	291.2 GB (4 x 72.8-GB 1 Wide Ultra3)
External	8.736 TB (10 x (12 x 72.8 GB 1 Wide Ultra3)
Total	9.027 TB

	Quantity Supported	**Position Supported**	**Controller**
Tape Drives (External only support)			

Note: For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following:

http://www5.compaq.com/products/quickspecs/North_America/10233.html (North America)
http://www5.compaq.com/products/quickspecs/Division/10233.html (Division/World Wide)

Note: For an up-to-date listing of the latest O/S Support details for each of the Tape Storage Systems listed below, please see the following:
http://www5.compaq.com/products/quickspecs/North_America/10809.html (North America)
http://www5.compaq.com/products/quickspecs/Division/10809.html (Division/World Wide)

20/40-GB DAT DDS-4 8 Cassette Autoloader	Up to 2	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
AIT 50-GB External AIT 35-GB LVD External	1	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
SDLT 110/220-GB, External	Up to 2	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
External 40/80-GB DLT Enhanced External 20/40-GB DLT	Up to 3 per controller	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
HP StorageWorks AIT 35 GB Autoloader	Up to 1 (for a single HBA) Up to 2 (for a dual HBA)	External	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
SSL2020 AIT Library	Up to 5	External	64-Bit Dual Channel Wide Ultra2 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
MSL5026DLX (40/80GB DLT-based) MSL5026SL (SDLT-based) Library MSL5052SL (SDLT-based) Library	2 drives per SCSI channel	External	64-Bit Dual Channel Wide Ultra2 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
DLT1 1280 SuperLoader	Up to 2	External	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter 64-Bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
ESL9198SL ESL9326SL ESL9595SL	Please see the ESL Library QuickSpecs below to determine configuration requirements	External	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter

ESL9198SL: http://www5.compaq.com/products/quickspecs/10867_div/10867_div.HTML
ESL9326SL: http://www5.compaq.com/products/quickspecs/10868_div/10868_div.HTML
ESL9595SL: http://www5.compaq.com/products/quickspecs/11332_div/11332_div.HTML

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Part Number 232310-B21

Spare Kit 164460-001

Operational Input Voltage Range (V rms) 90 to 264

Frequency Range (Nominal) (Hz) 47 to 63 (50/60)

Nominal Input Voltage (Vrms)	**100**	**115**	**200**	**208**	**220**	**230**	**240**
Max Rated Output Wattage Rating	700	700	1250	1250	1250	1250	1250
Nominal Input Current (A rms)	8.9	7.6	7.5	7.2	6.8	6.5	6.3
Max Rated Input Wattage Rating (Watts)	875	854	1471	1471	1471	1471	1471
Max. Rated VA (Volt-Amp)	893	871	1501	1501	1501	1501	1501
Efficiency (%)	80	82	85	85	85	85	85
Power Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Leakage Current (mA)	0.31	0.36	0.63	0.65	0.69	0.72	0.75
Maximum Inrush Current (A peak)	35	35	35	35	35	35	35
Maximum Inrush Current duration (mS)	20	20	20	20	20	20	20

208V or Higher System Specifications

DL590/64 Fully Configured

Up to 4 Processors, 64 Memory Slots, 4 Hard Drives, 11 PCI Slots, and 3 Hot Plug Power Supplies

Nominal Input Voltage (Vrms)	**200**	**208**	**220**	**230**	**240**
Fully Loaded System Input Wattage (W)	1387	1387	1387	1387	1387
Fully Loaded System Input Current (A rms)	7.0	6.8	6.4	6.2	5.9
Fully Loaded System Thermal (BTU-Hr)	4728	4728	4728	4728	4728
Fully Loaded System VA (Volt-Amp)	1415	1415	1415	1415	1415
System Leakage with all power supplies loaded (mA)	1.88	1.95	2.06	2.16	2.25
System Inrush Current with all power supplies loaded (A)	105	105	105	105	105
Power cord requirements	Nema 6-20P to IEC320-C19		Option no./Spare no.: 235604-001/237458-001		
	PDU Jumper Cord IEC320-C19 to IEC320-C20		Option no./Spare no.: 295633-B21/295508-001		

100/115V System Specifications

DL590/64 Fully Configured Example

With 4 Processors, 32 Memory Slots, 2 Hard Drives, 2 PCI Slots, and 3 Hot Plug Power Supplies

Nominal Input Voltage (Vrms)	**100**	**115**
Fully Loaded System Input Wattage (W)	1151	1123
Fully Loaded System Input Current (A rms)	11.7	10
Fully Loaded System Thermal (BTU-Hr)	3924	3829
Fully Loaded System VA (Volt-Amp)	1174	1146
System Leakage with all power supplies loaded (mA)	0.94	1.08
System Inrush Current with all power supplies loaded (A)	105	105
Power cord requirements	Nema 5-15P to IEC320-C19	Option no./Spare no.: 235603-001/237457-001
	PDU Jumper Cord IEC320-C19 to IEC320-C20	Option no./Spare no.: 295633-B21/295508-001

Notes:

* - To review typical system power ratings use the Active Answers Power Calculator which is available via the online tool located at URL:

http://activeanswers.compaq.com/aaconfiguratorcode/

To drill down to calculators:
- Click on: "ProLiant Servers"
- Click on the Server of interest. Example: DL590/64
- Click on: "Power Calculator" link. (You may need to scroll down to see it)

Power Cords (C19 Sets)	**Normal Server Voltage (VAC)**	**Plug Style**	**Power Cord Part Number**	**Option Kit Part Number Qty. = 1**	**Option Kit Part Number Qty. = 25**	**Spares Kit Part Number**
PDU Jumper Cord IEC320-C19 to IEC320-C20			242867-001	295633-B21		295508-001
Country						
Argentina	220					
Australia	240		295511-001		295529-011	295547-011
Austria	220-230	EURO	295477-001		295529-021	295547-002
Bahamas	120	5-15P	178968-001	235603-001		237457-001
Belgium	220-230	EURO	295477-001		295529-021	295547-002
Brazil	110-220	5-15P	178968-001	235603-001		237457-001
Canada	120	5-15P	178968-001	235603-001		237457-001
CzRch Rep	220-230	EURO	295477-001		295529-021	295547-002
Chile	220		295511-001		295529-011	295547-011
Columbia	110-220	5-15P	178968-001	235603-001		237457-001
Denmark	220-230					
Dominican Republic	110	5-15P	178968-001	235603-001		237457-001

Finland	220-230	EURO	295477-001		295529-021	295547-002
France	220-231	EURO	295477-001		295529-021	295547-002
Germany	220-232	EURO	295477-001		295529-021	295547-002
Greece	220-233	EURO	295477-001		295529-021	295547-002
Hong Kong	200	UK (13A)	295478-001	376876-001	295529-031	295547-031
Hungary	220	EURO	295477-001		295529-021	295547-002
Indonesia	220	EURO	295477-001		295529-021	295547-002
India	220-250		295510-001		295529-AR1	295547-AR1
Israel	230		191241-002	196820-BT1		
Italy	220-230		295553-001			
Japan	100					
Korea, S	220	EURO	295477-001		295529-021	295547-002
Mayaysia	240	UK (13A)	295478-001	376876-001	295529-031	295547-031
Mexico	127	5-15P	178968-001	235603-001		237457-001
Middle East	220	EURO	295477-001		295529-021	295547-002
Netherlands	220-230	EURO	295477-001		295529-021	295547-002
New Zealand	230		295511-001		295529-011	295547-011
Norway	220-230	EURO	295477-001		295529-021	295547-002
Philippines	115	5-15P	178968-001	235603-001		237457-001
Poland	220	EURO	295477-001		295529-021	295547-002
Portugal	220-230	EURO	295477-001		295529-021	295547-002
PRC (China)	220		295511-001		295529-011	295547-011
Puerto Rico	120	5-15P	178968-001	235603-001		237457-001
Russia	220	EURO	295477-001		295529-021	295547-002
Saudi Arabia	127-220					
Singapore	230	UK (13A)	295478-001	376876-001	295529-031	295547-031
South Africa	220-250		295510-001		295529-AR1	295547-AR1
Spain	220-230	EURO	295477-001		295529-021	295547-002
Sweden	220-230	EURO	295477-001		295529-021	295547-002
Switzerland	220-230					
Taiwan	110	5-15P	178968-001	235603-001		237457-001

Thailand	220	EURO	295477-001		295529-021	295547-002
UK & Ireland	240	UK (13A)	295478-001	376876-001	295529-031	295547-031
United States	120	5-15P	178968-001	235603-001		237457-001
Venezuela	120	5-15P	178968-001	235603-001		237457-001

Notes:

The DL590/64 –421 sku's ship with:
Qty 1, 125V, 5-15P/C19 cord (178968-001)
Qty 2, 240V, 6-20P/C19 cords (177857-001)
Qty 2, CA, IEC-to-IEC Jumper 16A (242867-001)
Qty 2, AC Line, 16A, c-19 cords (295478-001)
Qty 2, 250V, C19 Schucko cords (295477-001)

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TechSpecs

System Unit	**Dimensions** (HxWxD)	12.14 x 17.5 x 27 in/30.83 x 44.45 x 68.58 cm	
	Shipping Dimensions (HxWxD)	36.5 x 28.5 x 29 in/92.71 x 72.39 x 73.66 cm	
	Weight	153 lb/69.4 kg	
	Shipping Weight Range	176 to 216 lb/79.83 to 97.98 kg	
	No hard drives installed, one power supply		
	Input Requirements	Rated Input Voltage	100 to 120 VAC/200 to 240 VAC (lowline/highline)
		Rated Input Frequency	47 to 63 Hz (lowline/highline)
		Input Power	1151W/1387W (lowline/highline)
		Rated Input Current	12A at 100 VAC/7A at 200 VAC (lowline/highline)
	BTU Rating (Maximum output) (Note that the maximum heat output by the server is equal to the electrical power input.)	1387 Watts [3924 BTU/hr/4728 BTU/hr (lowline/highline)] (System is configured to draw maximum power)	
	Power Supply Output Power (per power supply)	Maximum Peak Power	700W/1250W (lowline/highline)
	Temperature Range	Operating	50◦ to 95◦ F at sea level, altitude de-rating of 1.8◦ F per 1,000 ft to 10,000 ft (10◦ to 35◦

			C at sea level, altitude de-rating of 1° C per 300 m to 3,000 m)
		Non-operating	-20° to 140° F/-29° to 60° C
		Shipping	-22° to 122° F/-30° to 50° C
	Relative Humidity (non-condensing)	Operating	20% to 80%
		Non-operating	5% to 90%
	Maximum Wet Bulb Temperature	101.7°F/38.7°C	
	Acoustic Noise	Idle (Fixed Disk Drives Spinning)	
		L_{WAd} (BELS)	7.0
		L_{pAm} (dBA)	54
		Operating (Random Seeks to Fixed Disks)	
		L_{WAd} (BELS)	7.0
		L_{pAm} (dBA)	54
Power Supply	**1250/700W, Hot Plug Redundant** (1 or 2 standard)	One or Three Redundant Power Supplies (optimized to provide full redundancy at 220 volts)	
	Input Specifications	Normal Line Voltage	100 to 120 VAC/200 to 240 VAC
		Range Input Line	90 to 132 VAC/180 to 265 VAC
		Frequency Range	47 to 63 Hz
		Power Factor	0.98
		Max Input Current	10A at 100 VAC/8.7 A at 200 VAC (lowline/highline)
		Max Inrush Current	< 35 A at 132 VAC (cold start)
		Holdup Time	20 ms from zero crossing at 120 VAC
	General Specifications	Full Output Rating	To 104° F/40° C and 5,000 ft/1524 m To 89.6° F/32° C and 10,000 ft/3,048 m (derate linearly)
		Minimum Load	1 A on + 5 V output; 1 A on + 12 V output; 0.5 A on + 3.3 V output
	Ambient Temperature Range	Operating	50° to 104° F/10° to 40° C
		Storage	-40° to 149° F/-40° to 65° C
	Dielectric Voltage Withstand	Input to Output	3,000 VAC/min
		Input to Ground	1,500 VAC/min
	Input Transient Susceptibility	Common and Differential Mode (superimposed on AC line)	2,500 V, 1µs, damped sinusold 600 V, 10 µs pulse

		Differential Mode	20% step change in AC input voltage
System Power Module	**Input Specifications**	DC Input	43 to 53 V DC
		Max. Steady State Input Current	14 A
		Rated Input Power	500 Watts at 43 V DC
		Max Inrush Current	28 A
		Max Inrush Current Duration	50 MS
	Output Specifications	Regulation Limit for 3.3V channel	3.17 to 3.465 V
		Regulation Limit for 5V channel	4.75 to 5.25 V
		Regulation Limit for 12V channel	11.4 to 12.6 V
		Max current for 3.3V channel	65 A
		Max current for 5V channel	25 A
		Max current for 12V channel	15 A
	Temperature Range	Operating	32◦ to 140◦ F at full load at 200 LFM (Linear Feet per Minute). Temperature to be derated 1.8◦ F for every 1000 feet above sea level. (0◦ to 60◦ C at full load at 200 LFM. Temperature to be derated 1◦ C for every 304.8 meters above sea level.)
		Non-Operating	-40◦ to 158◦ F with a maximum rate of change of 68◦ F/hour (-40◦ to 70◦ C with a maximum rate of change of 20◦ C/hour)
LS-120 Drive	**Dimensions**	(HxWxD, maximum)	0.5 x 5.22 x 5.45 in/1.27 x 13.25 x 138 cm
		Weight	0.61 lb/0.276 kg
	Maximum Transfer Rate	From Disk	896 KB/s
		Sustained	375 to 900 KB/s
	120 MB Physical Format	Number of Heads	2
		Bytes per Sector	512
		Sectors per Track	51-92
		Zones/Side	55
		Data Tracks per Side	1736
		Servo Tracks	900
		Sector Interleave	1:1

	Access Times (including setting)	Track-to-track	20 ms (typical)
		Average	70 ms (typical)
		Latency Average	41.67 ms
	Operating Conditions	Temperature	41° to 131°F/5° to 50°C
		Humidity	10% to 80% RH
	Operating System Support	Windows 98/98SE, Windows 2000, Windows Millennium, Windows NT 4.0	

Video Controller	**Controller Chip**	ATI RAGE XL	
	Video DRAM	8 MB Video SDRAM	
	Data Transfer Method	32-bit PCI	
	Support Resolution		Supported Color Depths:
		640 x 480	16.7M, 64K, 256, 16
		800 x 600	16.7M, 64K, 256, 16
		1024 x 768	16.7M, 64K, 256, 16
		1152 x 864	16.7M, 64K, 256, 16
		1280 x 1024	16.7M, 64K, 256, 16
		1600 x 1200	64K, 256, 16
	Connector	VGA	

Hot Plug Wide Ultra3 SCSI Hard Drives	**72.8 GB10K** 232432-B22	**Capacity**	72837.2 MB	
		Height	1 in/25.4 mm	
		Width	4 in/101.6 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.3 ms
			Average	4.5 ms
			Full-Stroke	11 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Bytes/Sector	512
			Logical Blocks	142,264,000
		Operating Temperature	41◦ to 131◦ F/5◦ to 55◦ C	
	36.4 GB 10K 176496-B22	**Capacity**	36419.2 MB	
		Height	1 in/25.4 mm	
		Width	4 in/101.6 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	

	Seek Time (typical reads, including settling)	Single Track	0.7 ms
		Average	5.4 ms
		Full-Stroke	11 ms
		Rotational Speed	10,000 rpm
	Physical Configuration	Logical Blocks	71,132,000
	Operating Temperature	50◦ to 95◦ F/10◦ to 35◦ C	
18.2 GB 10K	**Capacity**	18209.3 MB	
142673-B22	**Height**	1 in/25.4 mm	
	Width	4 in/101.6 mm	
	Interface	Wide Ultra3 SCSI	
	Transfer Rate Synchronous (Maximum)	160 MB/s	
	Seek Time (typical reads, including settling)	Single Track	0.7 ms
		Average	5.4 ms
		Full-Stroke	11 ms
		Rotational Speed	10,000 rpm
	Physical Configuration	Logical Blocks	35,566,080
	Operating Temperature	50◦ to 95◦ F/10◦ to 35◦ C	
36.4 GB 15K	**Capacity**	36419.2 MB	
232916-B22	**Height**	1 in/25.4 mm	
	Width	4.0 in/101.6 mm	
	Interface	Wide Ultra3 SCSI	
	Transfer Rate Synchronous (Maximum)	160 MB/s	
	Seek Time (typical reads, including settling)	Single Track	0.4 ms
		Average	3.8 ms
		Full-Stroke	8 ms
		Rotational Speed	15,000 rpm
	Physical Configuration	Bytes/Sector	512
		Logical Blocks	71,132,000
	Operating Temperature	50◦ to 95◦ F/10◦ to 35◦ C	
18.2 GB 15K	**Capacity**	18209.3 MB	
188122-B22	**Height**	1 in/25.4 mm	
	Width	4 in/101.6 mm	
	Interface	Wide Ultra3 SCSI	

	Transfer Rate Synchronous (Maximum)	160 MB/s	
	Seek Time (typical reads, including settling)	Single Track	0.4 ms
		Average	3.8 ms
		Full-Stroke	8 ms
		Rotational Speed	15,000 rpm
	Physical Configuration	Logical Blocks	35,565,080
	Operating Temperature	50° to 95° F/10° to 35° C	

24X Max IDE CD-ROM Drive (Slim Line)	**Disk**	Applicable Disk	CD-DA, CD-ROM (Mode 1 and 2)
			CD-XA, CD-I (Mode 2, Form 1 and 2)
			CD-I Ready, CD Extra, Video CD, CD-Bridge
			Photo CD (Single and Multi-session)
			CD-WO
		Capacity	550 MB (Mode 1, 12 cm)
			640 MB (Mode 2, 12 cm)
		Diameter	4.7 x 3.15 in/12 x 8 cm
		Rotational Speed	4200 rpm maximum
		Center Hole	0.6 in/15 mm diameter
		Thickness	1.2 mm
		Track Pitch	1.6 µm
	Block Size	Mode 0	2,368, 2,352 bytes
		Mode 1	2,352, 2,340, 2,336, 2,048 bytes
		Mode 2	2,352, 2,340, 2,336, 2,048 bytes
	Interface	IDE (ATAPI)	
	Access Times (typical)	Random	< 140 ms
		Full-Stroke	< 300 ms
	Data Transfer Rate	Sustained	150 KB/s (sustained 1X)
		Burst	2100 to 4800 KB/s
	Cache Buffer	128 KB	
	Start-up Time (typical)	< 10 seconds	
	Stop Time	< 5 seconds	
	Operating Conditions	Temperature	41° to 120°F/5° to 55°C
		Humidity	10% to 80%
	Dimensions	(HxWxD, maximum)	12.7 x 131 x 130 mm
		Weight	< 0.75 lb/< 340 g

Smart Array 5300 Controller	**Data Compatible with all Smart Array Controllers**	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 66 MHz
	PCI Peak Data Transfer Rate	533 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	640 MB/s total, 160 MB/s per channel
	Channels	2, 4
	SCSI Ports (external/internal)	2 channel model: 2/2 4 channel model: 4/2
	Drives Supported (maximum)	56
	Note: Drives Supported (maximum) is based on use of *StorageWorks* Enclosure 4200 family (14 hard disk drive enclosure).	
	Cache	256, 128, 64 or 32 MB battery backed read-write
	RAID Support	0, 1, 1+0, 5, Advanced Data Guarding
	Note: For customers who have purchased the SA-5304/128 a quick firmware upgrade to enable the technology is available from http://www.compaq.com/smartarray.	
	Note: RAID Support: Advanced Data Guarding (RAID ADG) is available with 128-MB versions of the SA-5300 only.	
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No
Smart Array 532 Controller	**Data Compatible with all Smart Array**	Yes

Controllers	
Instant Upgrades to other Smart Array Controllers	Yes
Consistent Software Manageability Tools	Yes
PCI Bus	64-bit, 66 MHz
PCI Peak Data Transfer Rate	533 MB/s
SCSI Protocols Supported	Ultra3, Ultra2
SCSI Peak Data Transfer Rate	160 MB/s
Channels	2
SCSI Ports (external/internal)	1/1
Drives Supported (maximum)	14

Note: Drives Supported (maximum) is based on use of *StorageWorks* Enclosure 4300 family (14 hard disk drive enclosure).

Cache	32-MB cache engine
RAID Support	0, 1, 1+0, 5
Logical Drives (maximum)	32
Online Configuration	Yes
Online Capacity Expansion	Yes
Logical Drive Capacity Extension	Yes
Online Stripe Size Migration	Yes
Online RAID Level Migration	Yes
Online Spare Support	Yes
Automatic Data Recovery	Yes
Drive Roaming	Yes
Redundant Controllers	No

NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100

Network Interface	10Base-T/100Base-TX
Compatibility	IEEE 802.3/802.3u compliant
Data Transfer Method	64-bit/66MHz bus-master PCI, compatible with 64/33, 32/66, and 32/33
Network Transfer Rate	10Base-T (Half-Duplex), 10Base-2 10 Mb/s
	10Base-T (Full-Duplex) 20 Mb/s

		100Base-TX (Half-Duplex)	100 Mb/s
		100Base-TX (Full-Duplex)	200 Mb/s
	Connector	Dual RJ-45	
	I/O Address and Interrupt	Automatic Configuration	
	Cable Support	10Base-T	Categories 3, 4 or 5 UTP (2 or 4 pair); up to 328 feet (100 meters)
		100Base-TX	Category 5 UTP (2 pair); up to 328 feet (100 meters)
	OS Driver Support	Microsoft Windows Advanced Server Limited Edition, Linux 64-bit (RedHat 7.1, SuSE 7.2)	
64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	**Drives Supported**	Up to 14 SCSI devices	
	Storage Capacity	254.8 GB	
	Data Transfer Method	64-bit/66-MHz PCI bus-master	
	Maximum SCSI Channel Transfer Rate	160 MB/s per channel	
	Maximum Transfer Rate per PCI Bus (peak)	532 MB/s per channel	
	SCSI Protocols	Wide Ultra3 SCSI	
		Wide Ultra2 SCSI	
		Wide-Ultra SCSI-3	
		Fast-Wide SCSI-2	
		Fast SCSI-2	
	Electrical Protocol	Low Voltage Differential (LVD)	
	SCSI Termination	Active Termination	
	External SCSI Connectors	One 68-Pin Wide Ultra SCSI-3 connector	
	Internal SCSI Connectors	Two 68-Pin Wide Ultra SCSI-3 connectors (one LVD and one SE) One 50-Pin Narrow Ultra connector	
64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	**Drives Supported**	Up to 28 SCSI devices (14 per channel)	
	Storage Capacity	1.019 TB	
	Data Transfer Method	64-bit/66-MHz PCI bus-master	
	Maximum SCSI Channel Transfer Rate	160 MB/s per channel	
	Maximum Transfer Rate per PCI Bus (peak)	532 MB/s per channel	

SCSI Protocols	Wide Ultra3 SCSI
	Wide Ultra2 SCSI
	Wide-Ultra SCSI-3
	Fast SCSI-2
Electrical Protocol	Low Voltage Differential (LVD)
SCSI Termination	Active Termination
External SCSI Connectors	Two 68-pin VHDCI connectors
Internal SCSI Connectors	Two 68-Pin Wide Ultra SCSI-3 connectors One 50-Pin Narrow Ultra connector

Compaq Rack 10842 (42U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	78.7 in/199.9 cm	85in/215.9 cm	
	Depth	39.691 in/ 100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	31.5 in/ 80.01cm	43.5 in/110.49 cm	Carbon – frame
	Weight	295 lb/133.8 kg	335lb/151.95 kg	
Compaq Rack 10647 (47U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	89.96 in/228.5 cm	95.47 in/ 242.49 cm	
	Depth	39.691 in/ 100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	24 in/60.96 cm	32 in/81.28 cm	Carbon – frame
	Weight	245 lb/111 kg	284 lb/129 kg	
Compaq Rack 10642 (42U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	78.7 in/ 199.90 cm	86.22 in/219 cm	
	Depth	39.691 in/ 100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	24 in/60.96 cm	32 in/81.28 cm	Carbon – frame
	Weight	253 lb/114.84 kg	325 lb/147.52 kg	
Compaq Rack 10636 (36U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	68.6 in/ 174.24 cm	75.25 in/ 191.14 cm	
	Depth	39.691 in/100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	24 in/60.96 cm	32 in/81.28 cm	Carbon – frame
	Weight	220 lb/100 kg	272 lb/123 kg	
Compaq Rack 10622 (22U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	43 in/109.22 cm	52.25 in/ 132.72 cm	
	Depth	39.691 in/ 100.82 cm	48 in/121.92 cm	Graphite Metallic – doors
	Width	24 in/60.96 cm	32 in/81.28 cm	Carbon – frame

	Weight	176 lb/79.89 kg	225 lb/102.13 kg	
Compaq Rack 9842 (42U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	78.7 in/199.9 cm	86.22 in/219 cm	
	Depth	35.8 in/ 90.932 cm	48 in/121.92 cm	Opal
	Width	31.5 in/80.01 cm	38.8 in/98.55 cm	
	Weight	374 lb/170 kg	440 lb/200 kg	
Compaq Rack 9142 (42U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	78.7 in/199.9 cm	83.38 in/ 211.79 cm	
	Depth	35.8 in/90.932 cm	48 in/121.92 cm	Opal
	Width	23.7 in/60.2 cm	32 in/81.28 cm	
	Weight	253 lb/114.84 kg	325 lb/147.52 kg	
Compaq Rack 9136 (36U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	68.6 in/ 174.24 cm	75.25 in/ 191.14 cm	
	Depth	35.8 in/90.932 cm	48 in/12.192 cm	Opal
	Width	23.7 in/60.2 cm	32 in/81.28 cm	
	Weight	165 lb/75 kg	234 lb/106 kg	
Compaq Rack 9122 (22U)(optional)	**Dimensions**	**Total Cabinet**	**Shipping**	**Color**
	Height	43 in/109.22 cm	52.25 in/ 132.72 cm	
	Depth	35.8 in/90.932 cm	48 in/121.92 cm	Opal
	Width	24 in/60.96 cm	32 in/81.28 cm	
	Weight	176 lb/79.89 kg	225 lb/102.13 kg	

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